

## ABSTRACT

The invention provides a medical device having a catheter and one or more expandable constricting/occluding members. The catheter is adapted for use with therapeutic or diagnostic devices, including an angioplasty/stent catheter and an atherectomy catheter. The 5 constrictor/occluder is mounted at the distal end of the catheter. Manometers may be mounted distal to one or more constrictors for measuring pressure distal to the constrictor(s). Methods of using the devices for preventing distal embolization during extracranial or intracranial carotid procedures or vertebral artery procedures by reversing blood flow in an internal carotid artery, an external carotid artery, and/or a common carotid artery toward the subclavian artery are 10 disclosed.

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